Amendments to the Claims

 (currently amended) A method for planning stimulation of hyper/hypometabolic cortical areas, the method comprising: determining functional anatomical patient data:

determining functional anatomical patient data,

determining structural anatomical patient data;

navigationally registering the functional anatomical data with the structural anatomical data such that the functional anatomical data are available for navigation:

based on the functional anatomical data, detecting positions of the hyper/hypometabolic cortical areas in a patient's anatomy;

detecting a position of a stimulator;

at least one of (i) registering or (ii) referencing the position of the hyper/hypometabolic cortical areas with respect to the position of the stimulator; and

determining an optimal positioning for the stimulator on the basis of the relative positional information of the hyper/hypometabolic cortical areas and the stimulator.

- (original) The method as set forth in claim 1, wherein the detecting step is performed using a medical navigation system.
- 3. (original) The method as set forth in claim 1, wherein the stimulation is planned of hypermetabolic areas related to the manifestation of systemic tinnitus.
 - 4. (cancelled)
 - (cancelled)
- (currently amended) The method as set forth in claim 1 [4], wherein the
 functional image detection method includes at least one of (i) functional magnetic
 resonance detection and (ii) positron emission tomography (PET).

- 7. (original) The method as set forth in claim 1, wherein the detecting step includes using a navigation system to optically detect arrangements of actively or passively emitting markers arranged on the patient's head and on the stimulation means
- 8. (original) The method as set forth in claim 1, wherein the detecting step includes using a navigation system to magnetically or inductively detect (i) at least one of (a) positional coils and (b) oscillating circuits, arranged on the patient's head and on the stimulator.
- (original) The method as set forth in claim 1, wherein the stimulator includes a cortical stimulation coil
- (original) The method as set forth in claim 2, further comprising: outputting detected navigational data together with the determined optimal positioning on an image output.
 - 11. (original) The method as set forth in claim 1, further comprising: calibrating the stimulator.
 - 12. (original) The method as set forth in claim 1, further comprising: simulating a field distribution for the stimulator; and determining stimulation areas based on the simulated field distribution.
 - 13. (cancelled)
- 14. (previously presented) A computer program storage medium comprising a program which, when it is run on a computer or is loaded onto a computer, causes the computer to perform a method in accordance with claim 1.

15. (previously presented) A method of stimulating hyper/hypometabolic cortical areas of a patient, the method comprising:

simulating a field distribution for a stimulation coil relative to a position of the stimulation coil:

determining a stimulation area for the stimulation coil relative to a position of the coil:

determining functional anatomical patient data;

determining structural anatomical patient data;

navigationally registering the functional anatomical data with the structural anatomical data such that the functional anatomical data are available for navigation;

detecting the position of the stimulation coil;

navigationally registering the field distribution of the stimulation coil; registering the position of the functional anatomical data with respect to the

position of the stimulation coil: and

positioning the stimulation coil on the basis of the relative positional information.